

Response to the Rejections

1. Rejection of claims 24-28 as anticipated by Miyama

The present claims are addressed to compositions that are the hydrolyzed or partially hydrolyzed product of alkoxy or acyloxy silanes having ethylenically unsaturated substituents and alkoxy or acyloxy silanes having aromatic substituents. These compositions are silsesquioxane resins or other siloxane resins which are not elastomeric. These compositions are cured at elevated temperatures. The degree of substitution for these materials (i.e., the number of organo groups where C is attached directly to the Si) is less than 2.

Miyama does not disclose or suggest such compositions. Miyama is addressed to silicone elastomers (coatings, sealant, and adhesives) that are cured at room temperature. Miyama's compositions comprise 100 parts organopolysiloxanes, 5-50 parts of surface treated silica, 05-15 parts of $R_nSi(OR_1)_{4-n}$ where R is alkyl or its partially hydrolyzed products, and a catalyst. More specifically the Miyama reference appears to teach a RTV (room temperature vulcanized) dimethylsiloxane polymer filled with treated silica containing a titanate catalyst. The present inventors understand that Miyama's compositions are prepared by taking a dimethylsilanol terminated polydimethylsiloxane polymer and grafting a di or tri alkoxysilane. An alkoxy group on the silane reacts with the silanol resulting in an alkoxy functional polydimethylsiloxane polymer. The treated silica is used to reinforce the polymer and the titanate is a catalyst. The material does not require heat to cure and the resulting polymer will have elastomeric properties. It is also relevant to note that Miyama's compositions are based upon a polymer with a degree of substitution of 2 or more (2 organo substituents attached to Si atom – e.g. $-[R_2SiO-]_x$). In contrast, the presently claimed materials have a degree of substitution of less than 2.

In summary, Miyama does not disclose or suggest hydrolyzed or partially hydrolyzed product of alkoxy or acyloxy silanes having ethylenically unsaturated substituents and alkoxy or acyloxy silanes having aromatic substituents. Therefore this rejection is improper and should be withdrawn.

2. Rejection of claims 24-28 as anticipated by Marzocchi

The Marzocchi patent is also unrelated to the presently pending claims. Marzocchi teaches a composition for making glass fiber reinforced elastomers. The

adhesion of the elastomer to the glass is improved by treating glass fibers with silanes (amino functional silanes are specifically emphasized). Marzocchi does not disclose or suggest hydrolyzed or partially hydrolyzed product of alkoxy or acyloxy silanes having ethylenically unsaturated substituents and alkoxy or acyloxy silanes having aromatic substituents. Therefore this rejection is improper and should be withdrawn.

Respectfully submitted,



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